

The following CostWorks enhancements are based on comments from CAIS users at the May and October CAIS Users Group meeting in 2005. Due to budget restraints, funding for some of the unique enhancements is being request from the related program office.

RS MEANS CONTRACTOR SUPPORT IN FY 2006

COSTWORKS TRAINING SUPPORT					RS Means Estimate
A.	RS Means CostWorks training provided at 2 sites and at the fall CAIS Network meeting in FY 2006. Site possibilities include HQ, Albuquerque, BNL, SRS & Naval Reactors.				\$14,000
PROPOSED COSTWORKS ENHANCEMENTS FOR FY 2006 BUDGET					
No.	Description	Requestor	Priority	Notes	RSMeans Estimate
Software Enhancements:					
13	Undo button to track back multiple steps.	CAIS Oct 04 mtg.	1	Revisit after sites have more experience using CostWorks.	\$9,100
14	Explore the creation of Seismic Assemblies as Common Additives or assemblies in CostWorks.(see #35)	CAIS Oct 04 mtg.	1	RS Means structural specialist will create assemblies in Foundations (A10), Substructure (A20), and Superstructure (B10) for sites to use where seismic conditions are present. Adding seismic assemblies is the best solution to the seismic markup issue.	
18	Create a summary report for all Building/Plant models containing the Model RPV, Square Foot Cost, Site, Area, and Asset ID. The report will allow searches by property identification and model name.	CAIS Oct 04 mtg.	1	This report provides summary information for sites to compare Model unit costs. RS Means will submit a cost proposal for this report.	\$4,500
19	Same as #18 but specifically for OSFs (sort the models by similar type). CostWorks and FIMS do not calculate OSF unit costs.	CAIS Oct 04 mtg.	1	See above comment	\$4,500
26	Include the Search tool (Binoculars icon) in the Settings Screen for model searches.	Ken Baker/RSIS	1	Facilitate users finding an existing model or project. Project name would include Property ID in the title.	\$4,500
31	Add a Column Header Row (repeating for each page) feature in the CW Estimator/ Reports/Define/Header feature. This is unlike the Title Header option.	Ken Baker/RSIS	1	This is similar to an Excel report feature for adding report header rows.	\$2,250
32	Creating a new project folder should result in going directly to the model after clicking the Sq. Ft. models tab and clearing information in the Estimator list.	Ken Baker/RSIS, ORO & NTS CW training	1		\$2,250
36	Add a Davis-Bacon labor category based on the latest available RS Means data.	SNL CW session	1	RS Means will investigate this proposed enhancement. Currently union and non-union labor rates are in CostWorks.	
38	Discuss having CostWorks estimate the RPV from a standard Parameter and Estimator format report. This can easily be done. CostWorks would export this cost and model name to FIMS. FIMS would retain its RPV formula for any site that wants to use the existing FIMS models. CostWorks would export the RPV cost and NOT the unit cost. This would be similar to an engineered cost entry in FIMS. An automatic trigger would check the CostWorks checkbox. The location/geo factor can be easily selected using the CostWorks Settings Screen Location tool based on city locations. The multipliers would be based on Unifomat system adjusters and not the weighted average cost factor as in FIMS. This method provides more accuracy in the RPV estimate.	Baker & Reynolds	1	This design change permits CostWorks users to estimate the RPV cost within the CostWorks software. The same calculation methodology would apply to OSF Systems. Currently FIMS does not have a OSF formula to calculate RPV. CostWorks can estimate the RPV using its Markup creation tools and local and site project conditions for all building, OSF plant and system models. The only change in CostWorks will be in the electronic export to FIMS.	\$2,250
39	Swapper - right clicking in both directions	NTS CW Training	1		\$4,500
42	Adding unit cost items should be permitted in the proper WBS location and not at the end of the estimate.	Paducah - John Elrod	1	RS Means will explore adding Unit Costs items in a logical location in Estimator reports.	\$4,500
61	Develop a "Find" feature in the CostWorks Estimator. This feature would simply adding an assembly to the Estimator tool.	LANL CW Training	1	This feature would assist in locating an assembly without clicking on the Assembly tab and scrolling through the assembly list to locate an item. Needs clarification from LANL.	

PROPOSED COSTWORKS ENHANCEMENTS FOR FY 2006 BUDGET					
No.	Description	Requestor	Priority	Notes	RSMeans Estimate
62	Add the following RS Means std models to the DOE Housing list: M.035 Assisted-Senior Living, M.130 College Dorm-2-3 Story, M.140 College Dorm 4-8 Story, M.240 Fraternity, Sorority House, M.010 Apartments 1-3 Story, M.020 Apartments 4-7 Story, M.030 Apartments 8-24 Story, M.350 Hotel 4-7 Story, M.360 Hotel 8-24 Story, M.660 Telephone Exchange. Delete the Residential Model tab from the DOE CostWorks program.	K Baker	1	Permits FIMS to provide FRPC RPV housing data using the DOE CostWorks as a basis for estimating FRPC type RPVs. No change in the square foot range that are currently used in the RS Means standard models is requested. It is a straight duplication of models.	\$2,000
63	Update the following models to include telephone ducts, telephone and internet wiring: all office models, all lab model using office sq.ft as design parameter, communication cntr, trailer, post office, visitor center, fire station.	K Baker	1	Align DOE models and RS Means standard models to have identical wiring features.	\$6,400
FIMS CONTRACT FUNDING					\$60,750
Create New Models:					
22	Add a wooden roof option and internal partitions as common additives for the bunker model.	CAIS Oct 04 mtg.	1	Pantex representatives again reiterated this request in the CAIS October 05 Network meeting.	\$1,100
23	Add a micro-electronics fabrication facility to the custom model list.	CW Sandia trainees.	1	Feedback from the CW training sessions indicates that several sites, LLNL and LANL, also have similar facilities. SNL rep Gary Hoe will look into providing schematics and we propose funding in the FY06 FIMS budget. Should FIMS add a specific Usage Code for these facilities?	\$36,100
24	Add a Clean Room common additive selection. Room would be for various sizes or based on micro-electronics unit cost.	Ken Baker/RSIS	1	Would be inserted into the Common Additives list ala SCIF rooms. Some work has already been done by RS Means consultant, Paul Sullivan, in connection with the KC Plant model. Models would cover Class 1, 10, and 1000. Would require input from sites that have existing clean rooms.	\$23,250
44	Develop a Low Conductivity Water chiller model	LLNL and TJ Laboratory during CW Training sessions		Requires de-ionizing & high impedance water treatment systems be added to the assemblies. The chillers have stainless steel components and these extra costs can be added to the assemblies in the Estimator tool. The Notes field can also be used to describe this change in cost and component materials..	\$21,250
PROPOSED FOR ADDITIONAL NNSA FUNDING					\$81,700
59	Develop a process or methodology for the user to custom design various laboratory/office compositions/ratios using automatic sizing algorithms. An example would be a model that is 20% laboratory and 80% office. This would only apply to laboratory/office buildings.	K Baker	1	User would stipulate a percentage and CostWorks would do the design of the various assemblies. There are 5 laboratory/office models with percentages of 80/20 lab/office and 50/50 lab/ office. RS Means would develop the algorithms.	\$13,000
60	Develop a model for Evaporative Cooling chiller plants. 8 records at Science sites.	K Baker	1	Capacities range from 668 - 14,400,000 tons. Does this capacity sound far fetched?	\$17,600
FRPC Driven New Models:					
55	Develop model for 303 FAMILY HOUSING - Buildings primarily used as dwellings for families/dependents. Includes apartment houses, single houses, row houses, public housing, military personal housing, federal employee and housing for institutional personnel.	K. Baker	1	RS Means adds the Assisted Senior Living, Apartment 1-3, 4-7, and 8-24 story models, and Hotel 4-7, 8-24 story models and all house, row house models to the generic list.	\$19,300
56	Develop model for 304 DORMITORIES/BARRACKS. Buildings primarily used as dwellings for housing individuals (without families/dependents).	K. Baker	1	RS Means adds the College Dormitory 2-3, 4-8 story models, and the Fraternity/Sorority House to the generic list of models.	\$15,200
57	Develop a model for 661 COMMUNICATION SYSTEMS. Buildings used for telephone and telegraph systems, data transmission, satellite communications, and/or associated with radio towers or other communications facilities	K. Baker	1	This is a new usage code for FRPC requirements. Does RS Means have an existing model that could be used?	\$35,150
58	Develop a model for 684 NAVIGATION & TRAFFIC AIDS. Includes buildings that house aircraft or ship navigation and traffic aids, such as beacon lights, antenna systems, ground control approach systems, and obstruction lighting.	K. Baker	1	This is also a new FIMS usage code. Does RS Means have a generic model counterpart or is a new design necessary?	\$18,290
DELETE FROM ENHANCEMENTS LIST					\$118,540

PROPOSED COSTWORKS ENHANCEMENTS FOR FY 2006 BUDGET								
No.	Description	Requestor	Priority	Notes				RSMeans Estimate
New CostWorks Assemblies:								
34	Add smaller capacities to evaporative cooling Assembly selections.	LLNL CW training	1	Expands the selection of available evaporative cooling assemblies.				
41	Add communication drops assemblies if they do not currently exist	NTS CW Training	1	Communication and alarm system "drops" can be found at D5030 910. Are more needed? Gary... What were your results with Gary Hoe?				
45	Develop additional boiler assemblies per list provided by Ken Baker and Chuck Siegfried. These are for steam plants and are gas, oil and solid fuel fired boilers.	C.Siegfried and K baker lists prepared in March 05.	1	Expands the steam plant boiler for oil, gas and solid fuel capacities that can be "swapped" in the Estimator tool.				
46	Add additional sewage and water treatment plant capacities to Assembly cost list	K Baker	1	Additional capacities are based on FIMS information and cover all existing water and sewage treatment facilities. Current range is too broad.				\$22,210
47	Develop assemblies for elevated 4141 TANKS GRAVITY (FIRE PROTECTION) . Eight (8) records in FIMS.	K Baker	1	CostWorks has unit costs for elevated, ground and underground tanks. Assemblies would include foundations and piping systems to the tanks. FIMS lists capacities from 40,000 to 800,000 gallons.				\$7,360
49	Develop Storage assemblies for 4421 TANKS, (INDUSTRIAL, NON-HAZARDOUS WASTE) for underground and ground level applications. Eighteen (18) records exist in FIMS.	K Baker	1	Unit costs exist but assembly development require foundations and pumping systems be added to estimate an accurate RPV. Need material and whether single or double wall thickness. Capacities are known.				\$11,460
				FIMS CONTRACT FUNDING				\$64,870
50	Develop Storage assemblies for 4431 TANKS, (HAZARDOUS, NOT CONTAMINATED) for underground and ground level applications. Thirty-five (35) records exist in FIMS.	K. Baker	1	Tanks may exist in unit cost books. Assemblies require foundations and pumping systems. Need material and whether single or double wall thickness. Capacities are known.				\$11,460
51	Develop storage assemblies for 4441 TANKS, (HAZARDOUS, CONTAMINATED) for underground and ground level applications. Fifty (50) records exist in FIMS.	K. Baker	1	Tanks may exist in unit cost books. Assemblies require foundations and pumping systems. Need material and whether single or double wall thickness. Capacities are known.				\$11,460
52	Develop models for the following petroleum storage tanks: 4221 TANKS (OIL) Seventy (70) records exist in FIMS.	K. Baker	1	Need material, and whether tanks are elevated, underground or ground level. Capacities are known.				
	4321 TANKS (NATURAL GAS). 1 record exists in FIMS.							\$6,240
53	Develop models for the following water tanks: 4131 TANKS, GRAVITY (NONPOTABLE) 15 records 4161 TANKS, PRESSURE (POTABLE) 11 records 4171 TANKS, PRESSURE (NONPOTABLE) 8 records 4181 TANKS, PRESSURE (FIRE PROTECTION) 6 records	K. Baker	1	Need material, and whether tanks are elevated or ground level. Capacities are known from FIMS data.				
								\$24,960
54	Develop models for the following piping systems: 8421 PIPING (INDUSTRIAL, NOT HAZARDOUS WASTE) 12 records. 8431 PIPING (HAZARDOUS, NOT CONTAMINATED WASTE) 0 records at this time. 8441 PIPING (HAZARDOUS AND CONTAMINATED WASTE) 18 records.	K. Baker	1	Need material and piping sizes but no records for 8431's seems odd..				
								\$6,240
						PROPOSED FOR ADDITIONAL EM FUNDING		\$60,360
						TOTAL FUNDING PLANS		
						FIMS CONTRACT FUNDING		\$125,620
						NNSA SPECIFIC FUNDING		\$81,700
						EM SPECIFIC FUNDING		\$60,360
						TOTALS		\$267,680